

# SEQUENCE LISTING

<110> LUCHE, Ralf M.  
WEI, Bo

<120> DSP-14 DUAL-SPECIFICITY PHOSPHATASE

<130> 200125.422US

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<150> 60/201,322

<151> 2000-05-02

<160> 16

<170> PatentIn Ver. 2.1

<210> 1

<211> 1165

<212> DNA

<213> Homo sapiens

<400> 1

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1165

<210> 2

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<212> PRT

<213> Homo sapiens

<400> 2

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Ala Lys Arg Leu Ser Pro Lys Met Glu Glu Glu Gly Glu Glu Glu Asp  
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Tyr Cys Thr Pro Gly Ala Phe Glu Leu Glu Arg Leu Phe Trp Lys Gly  
35 40 45

Ser Pro Gln Tyr Thr His Val Asn Glu Val Trp Pro Lys Leu Tyr Ile  
50 55 60

Gly Asp Glu Ala Thr Ala Leu Asp Arg Tyr Arg Leu Gln Lys Ala Gly  
65 70 75 80

Phe Thr His Val Leu Asn Ala Ala His Gly Arg Trp Asn Val Asp Thr  
85 90 95

Gly Pro Asp Tyr Tyr Arg Asp Met Asp Ile Gln Tyr His Gly Val Glu  
100 105 110

Ala Asp Asp Leu Pro Thr Phe Asp Leu Ser Val Phe Phe Tyr Pro Ala  
115 120 125

Ala Ala Phe Ile Asp Arg Ala Leu Ser Asp Asp His Ser Lys Ile Leu  
130 135 140

Val His Cys Val Met Gly Arg Ser Arg Ser Ala Thr Leu Val Leu Ala  
145 150 155 160

Tyr Leu Met Ile His Lys Asp Met Thr Leu Val Asp Ala Ile Gln Gln  
165 170 175

Val Ala Lys Asn Arg Cys Val Leu Pro Asn Arg Gly Phe Leu Lys Gln  
180 185 190

Leu Arg Glu Leu Asp Lys Gln Leu Val Gln Gln Arg Arg Arg Ser Gln  
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Arg Gln Asp Gly Glu Glu Glu Asp Gly Arg Glu Leu  
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<210> 4  
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Thr Asn Ile Leu Ala Tyr Leu Met  
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<212> DNA  
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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Nucleotide  
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<210> 7

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<213> Artificial Sequence

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<210> 8

<211> 170

<212> PRT

<213> Homo sapiens

<400> 8

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Pro Leu Ser Asn Ser Gln Pro Ser Phe Pro Val Glu Ile Leu Pro Phe  
20 25 30

Leu Tyr Leu Gly Cys Ala Lys Asp Ser Thr Asn Leu Asp Val Leu Glu  
35 40 45

Glu Phe Gly Ile Lys Tyr Ile Leu Asn Val Thr Pro Asn Leu Pro Asn  
50 55 60

Leu Phe Glu Asn Ala Gly Glu Phe Lys Tyr Lys Gln Ile Pro Ile Ser  
65 70 75 80

Asp His Trp Ser Gln Asn Leu Ser Gln Phe Phe Pro Glu Ala Ile Ser  
85 90 95

Phe Ile Asp Glu Ala Arg Gly Lys Asn Cys Gly Val Leu Val His Cys

100	105	110
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115	120	125
Gln Lys Leu Asn Leu Ser Met Asn Asp Ala Tyr Asp Ile Val Lys Met		
130	135	140
Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe Met Gly Gln Leu Leu		
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		160
Asp Phe Glu Arg Thr Leu Gly Leu Ser Ser		
165	170	
<210> 9		
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		15
Pro Ser Ser Gln Pro Ala Phe Pro Val Gln Ile Leu Pro Tyr Leu Tyr		
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Leu Gly Cys Ala Lys Asp Ser Thr Asn Leu Asp Val Leu Gly Lys Tyr		
35	40	45
Gly Ile Lys Tyr Ile Leu Asn Val Thr Pro Asn Leu Pro Asn Ala Phe		
50	55	60
Glu His Gly Gly Glu Phe Thr Tyr Lys Gln Ile Pro Ile Ser Asp His		
65	70	75
		80
Trp Ser Gln Asn Leu Ser Gln Phe Phe Pro Glu Ala Ile Ser Phe Ile		
85	90	95
Asp Glu Ala Arg Ser Lys Lys Cys Gly Val Leu Val His Cys Leu Ala		
100	105	110
Gly Ile Ser Arg Ser Val Thr Val Thr Val Ala Tyr Leu Met Gln Lys		
115	120	125
Met Asn Leu Ser Leu Asn Asp Ala Tyr Asp Phe Val Lys Arg Lys Lys		
130	135	140

Ser Asn Ile Ser Pro Asn Phe Asn Phe Met Gly Gln Leu Leu Asp Phe  
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Glu Arg Thr Leu Gly Leu Ser Ser  
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<210> 10  
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 <212> PRT  
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<400> 10  
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 20 25 30

Glu Ser Leu Ala Lys Leu Gly Ile Arg Tyr Ile Leu Asn Val Thr Pro  
 35 40 45

Asn Leu Pro Asn Phe Phe Glu Lys Asn Gly Asp Phe His Tyr Lys Gln  
 50 55 60

Ile Pro Ile Ser Asp His Trp Ser Gln Asn Leu Ser Arg Phe Phe Pro  
 65 70 75 80

Glu Ala Ile Glu Phe Ile Asp Glu Ala Leu Ser Gln Asn Cys Gly Val  
 85 90 95

Leu Val His Cys Leu Ala Gly Val Ser Arg Ser Val Thr Val Thr Val  
 100 105 110

Ala Tyr Leu Met Gln Lys Leu His Leu Ser Leu Asn Asp Ala Tyr Asp  
 115 120 125

Leu Val Lys Arg Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe Met  
 130 135 140

Gly Gln Leu Leu Asp Phe Glu Arg Ser Leu Arg Leu Glu  
 145 150 155

<210> 11  
 <211> 170  
 <212> PRT  
 <213> Homo sapiens

<400> 11

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Gln Pro Cys Leu Pro Val Pro Ser Val Gly Leu Thr Arg Ile Leu Pro  
20 25 30

His Leu Tyr Leu Gly Ser Gln Lys Asp Val Leu Asn Lys Asp Leu Met  
35 40 45

Thr Gln Asn Gly Ile Ser Tyr Val Leu Asn Ala Ser Asn Ser Cys Pro  
50 55 60

Lys Pro Asp Phe Ile Cys Glu Ser Arg Phe Met Arg Val Pro Ile Asn  
65 70 75 80

Asp Asn Tyr Cys Glu Lys Leu Leu Pro Trp Leu Asp Lys Ser Ile Glu  
85 90 95

Phe Ile Asp Lys Ala Lys Leu Ser Ser Cys Gln Val Ile Val His Cys  
100 105 110

Leu Ala Gly Ile Ser Arg Ser Ala Thr Ile Ala Ile Ala Tyr Ile Met  
115 120 125

Lys Thr Met Gly Met Ser Ser Asp Asp Ala Tyr Arg Phe Val Lys Asp  
130 135 140

Arg Arg Pro Ser Ile Ser Pro Asn Phe Asn Phe Leu Gly Gln Leu Leu  
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Glu Tyr Glu Arg Thr Leu Lys Leu Leu Ala  
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<210> 12

<211> 168

<212> PRT

<213> Homo sapiens

<400> 12

Pro Ala Gln Ala Leu Pro Pro Ala Gly Ala Glu Asn Ser Asn Ser Asp  
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20 25 30





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                     85                    90                    95  
 Ile Asp Ser Ile Lys Asn Ala Gly Gly Arg Val Phe Val His Cys Gln  
                     100                    105                    110  
 Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met Arg  
                     115                    120                    125  
 Thr Asn Arg Val Lys Leu Asp Glu Ala Phe Glu Phe Val Lys Gln Arg  
                     130                    135                    140  
 Arg Ser Ile Ile Ser Pro Asn Phe Ser Phe Met Gly Gln Leu Leu Gln  
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 Phe Glu Ser Gln Val Leu Ala Pro His  
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<210> 14

<211> 169

<212> PRT

<213> Homo sapiens

<400> 14

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                     20                    25                    30

Phe Leu Tyr Leu Gly Ser Ala Tyr His Ala Ala Arg Arg Asp Met Leu  
                     35                    40                    45

Asp Ala Leu Gly Ile Thr Ala Leu Leu Asn Val Ser Ser Asp Cys Pro  
                     50                    55                    60

Asn His Phe Glu Gly His Tyr Gln Tyr Lys Cys Ile Pro Val Glu Asp  
                     65                    70                    75                    80

Asn His Lys Ala Asp Ile Ser Ser Trp Phe Met Glu Ala Ile Glu Tyr  
                     85                    90                    95

Ile Asp Ala Val Lys Asp Cys Arg Gly Arg Val Leu Val His Cys Gln  
                     100                    105                    110

Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met Met

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<400> 16  
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Asp Gly Ser Gly Cys Tyr Ser Leu Pro Ser Gln Pro Cys Asn Glu Val  
20 25 30

Thr Pro Arg Ile Tyr Val Gly Asn Ala Ser Val Ala Gln Asp Ile Pro  
35 40 45

Lys Leu Gln Lys Leu Gly Ile Thr His Val Leu Asn Ala Ala Glu Gly  
50 55 60

Arg Ser Phe Met His Val Asn Thr Asn Ala Asn Phe Tyr Lys Asp Ser  
65 70 75 80

Gly Ile Thr Tyr Leu Gly Ile Lys Ala Asn Asp Thr Gln Glu Phe Asn  
85 90 95

Leu Ser Ala Tyr Phe Glu Arg Ala Ala Asp Phe Ile Asp Gln Ala Leu  
100 105 110

Ala Gln Lys Asn Gly Arg Val Leu Val His Cys Arg Glu Gly Tyr Ser  
115 120 125

Arg Ser Pro Thr Leu Val Ile Ala Tyr Leu Met Met Arg Gln Lys Met  
130 135 140

Asp Val Lys Ser Ala Leu Ser Ile Val Arg Gln Asn Arg Glu Ile Gly  
145 150 155 160

Pro Asn Asp Gly Phe Leu Ala Gln Leu Cys Gln Leu Asn Asp Arg Leu  
165 170 175

Ala Lys Glu Gly  
180